

Marko Pinterić

Physicist | Experimental Physics
and Building Physics

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Profile

PhD physicist with extensive experience in university lecturing, experimental research, and data analysis. Skilled in conducting experiments, analysing complex datasets, and developing Python-based data analysis tools. Experienced in teaching physics and building physics, mentoring students, and preparing academic materials. Committed to high-quality teaching and research, with a focus on bridging theory and practical application.

Professional Experience

2025–Present **Research Associate**, *University of Stuttgart*, Stuttgart

- Conducted experimental research and data analysis in optical spectroscopy.
- Developed measurement and data analysis software in Python.

2010–2025 **University Lecturer**, *University of Maribor*, Maribor

- Lectured physics and building physics courses for undergraduate and graduate students.
- Supervised eleven BSc and MSc theses.
- Authored two English language textbooks published by Springer, one translated to Chinese and one Slovenian language textbook, translated to Croatian.
- Conducted experimental research in dielectric and magnetic spectroscopy.
- Applied research in heat transfer and acoustics in building physics.

2004–2010 **Head of R&D**, *Epi Spektrum Ltd*, Maribor

- Measured, modelled and analysed acoustic data.
- Wrote noise prediction and mitigation elaborates.
- Applied GIS software for spatial analysis in environmental and building projects.

1997–2004 **Graduate/Doctoral Researcher**, *University of Maribor*, Maribor

- Conducted experimental research and data analysis in dielectric and magnetic spectroscopy.

Education

2003 **PhD in Physics**, *University of Zagreb*, Zagreb

Thesis: *Electronic properties of the superconducting and density wave phases in organic anisotropic materials*

2000 **MSc in Physics**, *University of Zagreb*, Zagreb

1997 **BSc in Physics**, *University of Zagreb*, Zagreb

Key Competencies

Teaching	Lecturing undergraduate and graduate courses in physics and building physics; supervising BSc and MSc theses.
Experimental Physics	Dielectric, magnetic and optical spectroscopy; laboratory instrumentation; experience with cryogenic and low-pressure systems.
Programming	Python (advanced), C/C++ (intermediate), Assembly (basic), VBA, HTML.
Academic Tools	LaTeX, GeoGebra, Moodle; preparation of teaching materials and problem sets.
Publications	Author of three textbooks; scientific publications and technical elaborates in building physics.
Collaboration	Experience in interdisciplinary and international academic environments.

Languages

English	C2
German	B2
Croatian	Native
Slovene	Native

Bibliography

- 2013 *Introduction to Physics with Solved Problems* (Slovenian), Maribor University Press (2013); Croatian translation (2019).
- 2017 *Building Physics: From Physical Principles to International Standards*, Springer (2017); 2nd ed. (2021); Chinese translation (2021)
- 2024 *Problems in Building Physics*, Springer (2024).

Selected Scientific Publications

- 2016 Pinterić M., et al., *Anion effects on electronic structure and electrodynamic properties of the Mott insulator κ -(BEDT-TTF)₂Ag₂(CN)₃*, *Phys. Rev. B* **94**, 161105, 2016.
- 2014 Pinterić M., et al., *Anisotropic charge dynamics in the quantum spin-liquid candidate κ -(BEDT-TTF)₂Cu₂(CN)₃*, *Phys. Rev. B* **90**, 195139, 2014.
- 2002 Pinterić M., et al., *Influence of internal disorder on the superconducting state in the organic layered superconductor κ -(BEDT-TTF)₂Cu[N(CN)₂]Br*, *Phys. Rev. B* **66**, 174521, 2002.

Personal Interests

- Music Member of Philharmonia Chor Stuttgart, KonzertChor of Liederkranz Stuttgart and Stuttgart Oratorienchor.
- Outdoors Regular hiking in the Schwäbische Alb region, cycling.
- Technology Model trains, LCD displays, Repair Café.